CLAIMS

What is claimed is:

- 1. A mobile terminal comprising:
 - a body;
- 5 a flip portion; and
 - a hinge connecting said body to said flip portion, said hinge comprising an antenna for use by an electronic circuit positioned within said mobile terminal.
 - 2. The mobile terminal of claim 1 wherein said antenna is an inverted-F antenna.
 - 3. The mobile terminal of claim 1 wherein said antenna is operative at frequencies between 2.4 and 2.485 GHz.
 - 4. The mobile terminal of claim 1 wherein said antenna operates within the ISM band.
 - 5. The mobile terminal of claim 1 wherein said antenna receives a GPS signal.
 - 6. The mobile terminal of claim 1 further comprising a second hinge forming a second antenna.
- 7. The mobile terminal of claim 6 wherein said first antenna is adapted for use at frequencies ranging from 2.4 to 2.485 GHz and said second antenna is adapted for receiving a GPS signal.

5

- 8. The mobile terminal of claim 1 further comprising a printed circuit board adapted to hold said electronic circuit.
- 9. The mobile terminal of claim 8 further comprising a fastener attaching said antenna to said printed circuit board.
 - 10. The mobile terminal of claim 9 wherein said fastener is a screw.
 - 11. The mobile terminal of claim 10 further comprising a second fastener attaching said antenna to said printed circuit board.
 - 12. The mobile terminal of claim 11 wherein one of said fasteners acts as a connection to ground for said antenna and the other of said fasteners acts as an RF feed for said antenna.
 - 13. A method of constructing a mobile terminal, comprising:

 positioning a printed circuit board in the mobile terminal;

 fastening an antenna to said printed circuit board; and

 using said antenna as a hinge for a flip portion of said mobile terminal.
- 20 14. The method of claim 13 wherein fastening an antenna to said printed circuit board comprises fastening an inverted-F antenna to said printed circuit board.

5

- 15. The method of claim 13 further comprising receiving and transmitting Bluetooth communications through said antenna.
- 16. The method of claim 13 further comprising receiving a GPS signal through said antenna.
- 17. The method of claim 13 wherein fastening an antenna to said printed circuit board comprises using a first fastener as a connection to ground and using a second fastener as an RF feed.
- 18. The method of claim 13 further comprising opening and closing said hinge during operation of the mobile terminal.
- 19. A mobile terminal comprising:
 - a body;
 - a printed circuit board positioned inside said body;
 - a flip portion; and
- a hinge, said hinge forming an inverted-F antenna and hingedly securing said flip portion to said body, said hinge electrically coupled to said printed circuit board.
- 20. The mobile terminal of claim 19 further comprising a voice communication transceiver and a second antenna adapted for use with said voice communication transceiver, said voice communication transceiver positioned within said body, and said second antenna spaced from said inverted-F antenna.

21. A method of constructing a mobile terminal, comprising:

connecting a flip portion to a body portion of the mobile terminal using a hinge that also comprises an antenna.

- 5 22. A mobile terminal comprising:
 - a body;
 - a printed circuit board positioned within said body;
 - electronic circuitry positioned on said printed circuit board;
 - at least one antenna for voice communications at a first operating frequency, said at least one antenna operatively connected to said electronic circuitry;
 - a flip portion;
 - a hinge comprising an auxiliary antenna connecting said flip portion to said body, said antenna operatively connected to said electronic circuitry, said auxiliary antenna for communication at a second operating frequency.
 - 23. The mobile terminal of claim 22 wherein said auxiliary antenna comprises a GPS receiver antenna.
 - 24. The mobile terminal of claim 22 wherein said auxiliary antenna comprises a bluetooth
- antenna.